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2004 Missouri Gypsy Moth Survey Report

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2004 Survey Results

A total of eighteen (18) moths were reported from around the state (Fig. 1). Moths were taken in sixteen (16) positive traps from seven (7) counties. Of the moths captured, eight were from St. Louis County (singles); three from Taney County (double; single); two from Barry County (double); two from Jackson County (singles); and one moth was captured in each of the following counties: Boone, St. Charles, and Stone.

Approximately 11,500 pheromone traps were placed throughout the state in the annual effort to detect the presence of this damaging insect pest. Traps were placed in approximately 102/114 counties. Primary trapping agencies were Missouri Departments of Agriculture and Conservation, USDA-APHIS-PPQ, with additional trapping conducted by U.S. Department of Defense (Whiteman AFB, Ft. Leonard Wood), and Missouri National Guard. Several areas of federal land (Mark Twain National Forest, George Washington Carver National Monument, and other federal monuments and wildlife areas) are included in the annual survey.

Discussion

The overall results of the 2004 survey are consistent with recent surveys (Table 1), though the total number of moths taken in this year's survey is up from eleven taken in 2003. The major activity continues to be found in the primary metropolitan areas of the state. Gypsy moth activity in some of our neighboring states to the north and east (particularly Illinois, Iowa, and Wisconsin) has increased in recent years and continues to be a primary concern. We should continue to monitor our situation in a manner consistent with our current approach.

2004 Summary of Gypsy Moth Positives

<u>County</u>	<u>Positive Traps</u>	<u>Moths</u>
Barry	1	2
Boone	1	1
Jackson	2	2
St. Charles	1	1
St. Louis	8	8
Stone	1	1
<u>Taney</u>	<u>2</u>	<u>3</u>
8 counties	16 positive traps	18 moths

Table 1.
Summary of Missouri Gypsy Moth Survey Program, 1967-2004

Year	# Traps used in survey	Area surveyed	# Multiple catches	Total number of moths taken
1967-1973	??	Limited statewide	0	0
1974	??	Limited statewide	0	1
1976-1979	??	Limited statewide	0	0
1980	??	Limited statewide	0	3
1981	3,500	1/3 of state	1	9
1982	4,200	1/3 of state	1	14
1983	5,700	1/3 of state	1	11
1984	6,000	1/3 of state	1	13
1985	5,152	½ of state	2	22
1986	6,900	½ of state	0	8
1987	7,320	½ of state	0	5
1988	7,600	½ of state	2	11
1989	7,515	86/114 counties	2	11
1990	7,432	61/114 counties	0	8
1991	6,819	65/114 counties	3	35
1992	8,721	67/114 counties	7	33
1993	9,032	48/114 counties	7	62
1994	13,000	97/114 counties	5	40
1995	12,500	85/114 counties	2	26
1996**	11,500	114/114 counties	0	6
1997	10,500	108/114 counties	2	13
1998	10,500	108/114 counties	2	17
1999	12,200	99/114 counties	1	13
2000	11,000	100/114 counties	2	12
2001	12,000	109/114 counties	1	6
2002	11,400	102/114 counties	0	4
2003	11,508	102/114 counties	0	11
2004	11,500	102/114 counties	2	18
**Entire state surveyed			Total # moths taken in 38 years	412